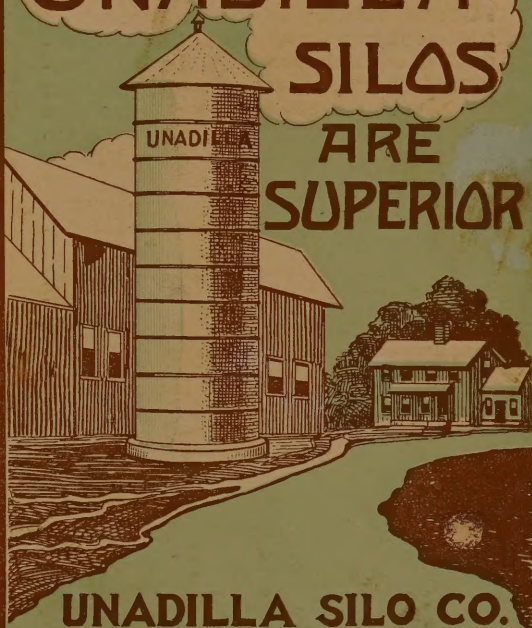


25
REASONS
WHY
UNADILLA
SILOS
ARE
SUPERIOR



UNADILLA SILO CO.
MANUFACTURERS
UNADILLA, N.Y.



and the cravings of the dairy and other farm animals for something green and succulent to keep them thrifty and productive can only be satisfied with a helping of silage, is when the UNADILLA SILO, with its store of pure, succulent and luscious green feed, measures up to the expectations of its owner. There are constructional reasons.

This booklet but briefly touches upon the more important features of UNADILLA SILO construction. Our large illustrated catalogue goes into details and a copy will be sent to any interested person. *Address*

UNADILLA SILO CO., UNADILLA, N. Y.



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Unadilla Silo Lumber is of Right Quality

"Silage keeps best against wood and nothing is lost around the edge."

That statement is not ours, neither does it come from a Silo manufacturer nor a Silo salesman. It's the published word of the Connecticut Agricultural Station given to the farming world after expert investigators had concluded a 5 years' test in curing silage. Furthermore, Government and State experts agree that wood Silos are the best suited to the perfect preservation of all silage stored in them, and that they are the least expensive to build and maintain. Therefore, the Unadilla, a practical Silo, is built of wood.

Two varieties are employed—Oregon Fir and Canadian Spruce, both painstakingly selected to be free from injurious defects and supplied by the most reputable mills operating in the

Lumber and Everything Else Right

Gentlemen: I am well pleased with the Unadilla Silo bought of your agent. Every joint fits perfectly and the lumber is first-class and better than I expected. The door or front is marvelous. When closed it is air tight, while the doors can be taken out or put anywhere in the frame and are far ahead of those on any other Silo I have ever seen. I also find one of the best features of the Silo to be the ladder formed by the fasteners, which is in the proper place to be convenient in going into or out of the Silo. It is always there and simply grand and none better.—F. S. Collins, Salem, N. Y.

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virgin forests of those localities in this country and Canada where each variety thrives to the greatest perfection.

Unadilla Silo Easy to Erect

No loss of time attends the erection of a Unadilla Silo, nor is it required that skilled labor be employed. The accurate machinery used in dressing, sawing, running the tongue and groove and kerfing the ends of staves for the metal splines precludes misfits in material. Every stave of the same length is interchangeable; no searching for numbered pieces. The door frame is shipped assembled and fitted with metal fixtures ready to be set up and plumbed on the foundation. Ordinary farm help make short shift of setting up a Unadilla Silo.

No Trouble Experienced

Gentlemen: I wish to express to you my appreciation of the quality of the Unadilla Silo which you sold me last spring. The material was of A1 quality. My men had no trouble whatever in putting it together.—Ex-Gov. Rollin S. Woodruff, New Haven, Conn.

No Puzzle to Erect the Unadilla

Gentlemen: The Silo purchased of you for our City Farm arrived in good condition, and we are well pleased with it. Lumber was good and all parts fitted correctly, so it was no trouble to put it together.—F. Coleman, Supt. Almshouse, Fitchburg, Mass.

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Unadilla Hoops are Extra Strong

The hoops of the Unadilla Silo not only are stronger than necessary to meet any possible lateral pressure, but their cold-pressed threads make them one-fourth stronger in the lugs, where the greatest strain comes, than a hoop with threads cut on, for the reason that the metal lost in cutting the threads on a $\frac{3}{4}$ inch hoop weakens it to the extent that its tensile strength is no greater than a $\frac{5}{8}$ inch hoop having cold-pressed threads. Hoops with cold-pressed-threads will not strip their nuts and break apart in the lugs, making it unnecessary to loosen the nuts when filling the Silo to allow for staves swelling, a precaution advocated by users of cut thread hoops. Unadilla hoops are rolled to fit curvature of Silo and are easily joined in the lugs. Two sizes of hoops are used, $\frac{5}{8}$ inch hoops at the top and middle, and $\frac{3}{4}$ inch hoops at the bottom, where the greatest lateral pressure has to be provided against.

Evidence of Rigid Construction

Gentlemen: During the destructive tornado which hit this section in March, 1913, my Unadilla Silo was carried out in the lot, dropped, fell on its side intact, and rolled over several times. Aside from their other good features, your Silos certainly possess rigid construction.—C. A. Whittier, Adams, N. Y.

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Best Malleable Iron Castings Used

All the hoop lugs, door fasteners and kindred metal fittings used on the Unadilla Silo are made of malleable iron, not of the ordinary grey or cast iron commonly employed in Silo construction. The malleable castings will bend under a heavy blow or crushing pressure, whereas the grey iron will break into fragments. The malleable castings cost 50% more than others and are oftentimes hard to obtain, but their use is a net gain in staunchness for Unadilla construction.

Door Opening Continuous and Unobstructed

The provision of a continuous opening from base to roof, fitted with short doors, makes the Unadilla the easiest of all Silos to enter and remove the ensilage from. The short doors can be readily raised in frame to give quick access to the ensilage level and permit of the feed being shoved out through the opening at a

Praises Convenience of Unadilla Silo

Gentlemen: Too much praise cannot be given to your continuous door front, which is the most convenient of all, or to your doors, whose fasteners make a most substantial ladder by which to get into the Silo or tighten the hoops.—E. E. Baum, Potsdam, N. Y.

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great saving of time and hard work as compared with Silos whose high doors, cut in at intervals and separated by wide cross-braces, require that the ensilage be lifted bodily and pitched up two or more feet over the obstructing doors and braces. At the very least calculation, 50c. worth of time alone is saved on each ton of ensilage shoved through the continuous Unadilla door opening.

Door Frame Can be Adjusted at Will

By the arrangement of having all hoops end at the sides of the door frame and connecting through patented lugs with separate short steel tie-rods across the door opening, the owner of a Unadilla Silo can at will, and without changing the tension of the hoops, adjust the frame to fit the doors, rather than being obliged to follow the more expensive and aggravating method of re-fitting the

Unadilla Made Great Saving

Gentlemen: Since using a Unadilla I cannot speak in too high terms of the nice arrangement for tightening the door frame and hoops, one independent of the other. My Silo paid for itself the first year by saving me \$140 worth of hay and increasing milk production by \$67.20 from same number of cows.—Herbert A. Cooper, Pulaski, N. Y.

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doors to the frame, as must be done with Silos whose door frame jambs are kept apart by solidly attached, non-adjusting braces. With the Unadilla Silo merely tightening or loosening the nuts on ends of the short steel tie-rods serves to narrow up or spread the frame apart, as may be necessary, to provide air-tight contact with the doors.

Rigidity of the Unadilla Always Maintained

It is of especial importance to know of the Unadilla Silo that while having a continuous opening, its door system embodies stability and strength equal to the rest of the structure, with means at hand to maintain permanent rigidity.

Patented lugs are bolted to either side of the door frame at proper intervals, and overlap the first staves adjoining frame to which they are fastened with clout nails. The upper half of each lug carries one end of a heavy steel adjusting tie-rod spanning the door opening, while the

Thinks Well of His Unadilla

Gentlemen: Let me say this of my Unadilla Silo: I think I have the best Silo in this locality; it keeps the ensilage best and it is so handy.—I. D. Luce, Falconer, N. Y.

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lower half receives one end of a hoop encircling the Silo to opposite lug. With the hoops pulling against the tie-rods it is impossible for the frame to buckle or twist out of shape, while by tightening or loosening the nuts on ends of the tie-rods the frame is adjusted to or from the doors, so that after years of use the entire door system is as tight-jointed and rigid as when Silo was erected.

Unadilla Doors are Non-Warpable, Non-Binding and Unbreakable

Unadilla doors do not warp out of shape for the reason that they are built of two thicknesses of matched lumber, clinch-nailed together with the grains crossed. They do not bind in the frame because the grain of the inside layer runs across the door opening and wood does not swell lengthwise. The two-layer construction makes them much stronger than doors built of single-thick material.

No Spoiled Silage Found at the Doors

Gentlemen: The 16x28 Silo bought of your company is proving very satisfactory. The doors are easily taken out and put in and the ensilage keeps just as good near the doors as in any other part of the Silo. The Unadilla is better than some that cost 20% more.
—Egbert Vosburgh, Hillsdale, N. Y.

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Ogee (O. G.) Jointing Provides Perfect Bearing Surface

By running an Ogee joint (curved similar to the letter S) along the continuous door opening edges of the door frame and the side edges of the doors, no square corners exist in which particles of ensilage or dirt can collect. The O. G. joint positively prevents outside air from passing through to the ensilage.

Frame and Doors Accurately Machined

After being built the doors, as well as the frame, are run over a jointer, thus making the doors a perfect fit with the frame and interchangeable.

Doors Easily and Quickly Removed

Unadilla doors do not bind tight or freeze fast in the frame. A jolt of the hand will loosen them any time. Their O. G. edges, in contact with a

Here's a Word About Other Doors

Gentlemen: It is with great pleasure that we recommend your Silo. Since we commenced feeding silage we have not had a spoiled forkful. Several——— Silos were put up in this locality and the owners have to smash in the doors with a sledge.—Meade & Boice, Millbrook, N. Y.

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similar edge on the frame, do not permit juice from the ensilage to run in between and freeze or cause the doors to swell tight, as frequently happens with square-shouldered, loose-fitting doors of the safe or refrigerator type, to remove which, in zero weather, calls into use the crowbar or axe.

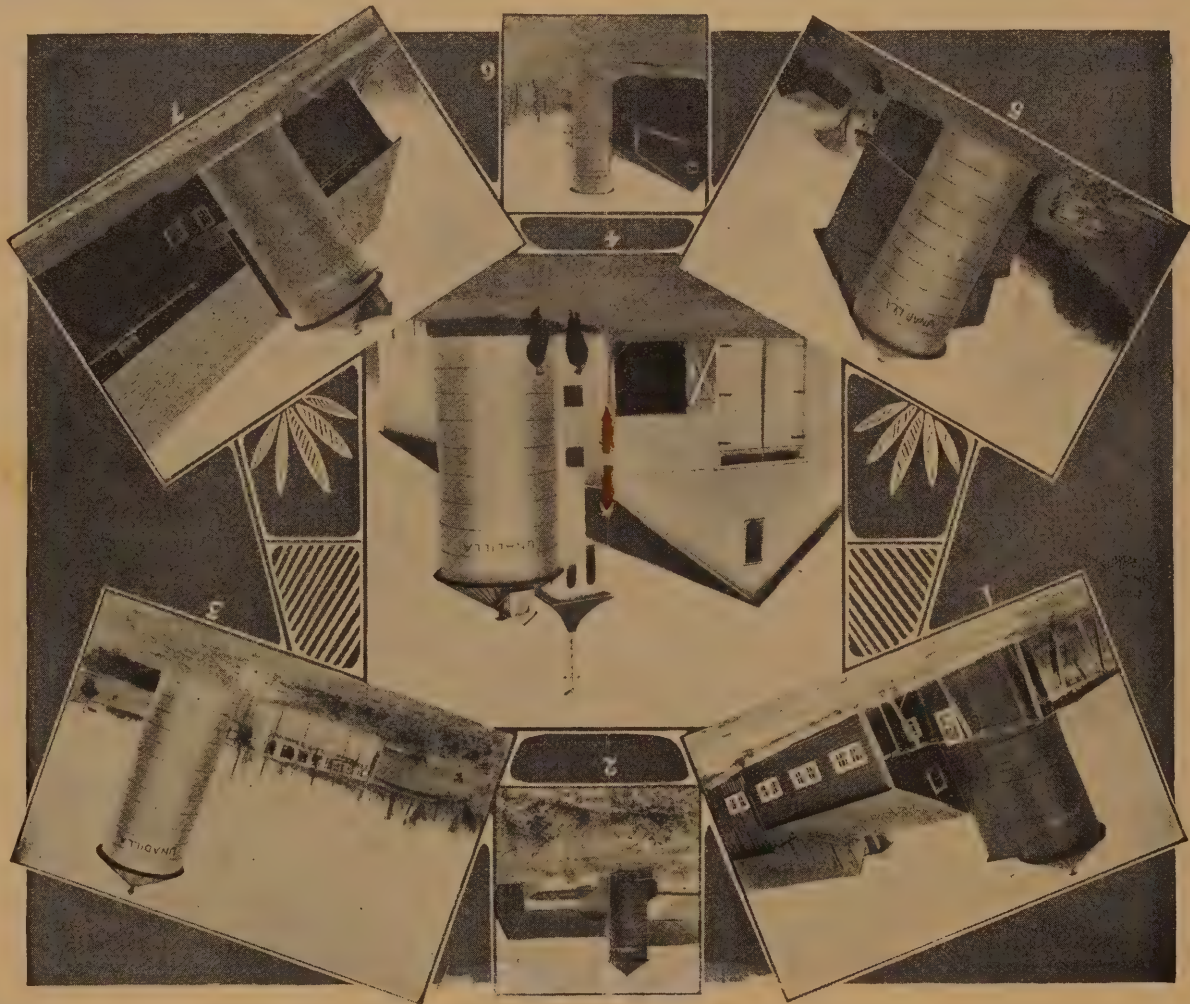
Doors Are Never Out of Alignment

Unadilla doors are always in perfect alignment, one above the other, and no amount of pressure from the ensilage can alter this state. The bottom of each door has a Λ -shaped joint which fits over the wedge-shaped top of the door below, an interlocking feature which makes possible the uniformly smooth surface back of the Unadilla door system, against which the ensilage settles compactly, leaving no channels or pockets to harbor air and spoil the silage.

The Unadilla Did Not Leak its Juice

Dear Sirs: The Silo I bought of you last summer has proven itself of great value to me. I began feeding out of it on Sept. 15th. The flow of milk increased and has kept up beyond my expectations. The lumber was of the best and the door front is the finest made. It is the only Silo in the township that did not leak a drop of juice. There was not a bit of spoiled ensilage. If I were ever to buy another Silo, it would be a Unadilla.—Charles Fleming, Salem, N. Y.

These Farmers Find that their Unadillas Keep Silage Prime: No. 1—City Farm, North Adams, Mass.; No. 2—H. C. Hayford & Son, Champlain, N. Y.; No. 3—Filmore & Slade, Bennington, Vt.; No. 4—Talcott Bros., Talcottville, Ct.; No. 5—Michael Mealey, Greenwich, N. Y.; No. 6—H. G. Viets, Granby, Ct.; No. 7—Henry C. Carter, Coila, N. Y.



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Unadilla Doors are Devoid of Cracks

Being constructed of two thicknesses of narrow, matched lumber, with the grains of the wood crossed, Unadilla doors do not shrink or swell or open up in cracks, as happens with doors made of two-inch thick lumber held together by cleats. It matters not how well seasoned the single-thick material may be when made up, once the doors are in contact with the ensilage they swell, and in drying out they shrink edgewise, leaving cracks between each piece. Air then gains access to the ensilage, the spores of mold get busy and quantities of feed spoil at the front. This does not occur back of the air-tight Unadilla doors.

Small Doors Make Handling Easy

Unadilla doors are 22 inches wide and either $15\frac{1}{4}$ or 16 inches high, the size furnished depending on height of Silo purchased, with allowance made for two doors between each hoop. They

Evidence of Complete Satisfaction

Gentlemen: I am now feeding the last of the silage (May 2, 1916) from my Unadilla, and have not found any spoiled after getting the top layer off. When I build another Silo it will be a Unadilla Fir.—Oliver B. Blanchard, Nelson, Penna.

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weigh but 12 lbs. making them light to handle and vastly easier to put in place than the larger and heavier doors, to manage which requires the combined efforts of all the farm help.

Doors are Devised to be Left in Opening

Unadilla doors can be raised up, as the feed is lowered, and left in the opening, thereby keeping out the rain, snow, wind and sun, elements which are injurious to the ensilage and destructive to the Silo itself. By leaving the doors in the frame it is strengthened and you always know where to find them, the contrary being the case when doors have to be removed from opening and left to kick around until lost.

Door Fastener a Marvel of Simplicity

The Unadilla fastener is located entirely on the door and does not come in connection with a plate, latch or other device on the frame. It consists of a single piece round steel lever,

Silo Furnishes Best Feed for Dairying

Dear Sirs : Since feeding from my Unadilla I can testify that silage is the best feed for dairying and that the Unadilla is a most convenient Silo to use. You need not be breaking in the doors or storing them away, for by shoving them up as you go down they are always in place ready for business—Isaac L. King, Atglen, Pa.

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shaped to the form of a ladder step, attached to which are two short levers with presser-foot ends, which move freely in double-slotted cams bolted securely to the door. The parts are simple and substantial. Nothing to get out of order. A child can operate it. The Unadilla fastener locks the door in frame at any point and never has to be reset to allow for shrinkage in the doors.

Fastener Provides Each Door With a Handle

The Unadilla fastener makes a firm handle by which the doors can be conveniently lifted and moved about.

The Series of Fasteners Make a Substantial Ladder

The door fasteners make a most efficient and substantial ladder, with rounds $15\frac{1}{4}$ inches apart. It is not a pretense of a ladder, as is the case where flat braces project from the door opening at intervals of two or

No Silo Could be Tighter Than This

Dear Sirs: The Silo we bought of you is all right. It is tight enough to hold water. The doors are very convenient both as a ladder and in removing them.—
John Anderson & Son, Oriskany Falls, N. Y.

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more feet apart, which collect ensilage and become slippery under foot. The Unadilla fasteners hang out about 5 inches from the door and are 13 inches wide, providing a safe hand and foot hold.

Fastener Operated With One Hand

To put the Unadilla doors in place and fasten or remove them engages but one hand, leaving the other hand free to hold onto the ladder formed by the door fasteners.

Fastener Automatically Clamps Door in the Frame

A downward pull on the handle lever moves the presser-foot levers out over the frame, which they grip, forcing the door downward over the wedged top of the door below, outward and tight.

How a Unadilla Pays on a Fruit Farm

Dear Sirs : One year ago I erected a 10x26 Unadilla Silo and filled it with corn. Up to that time I never kept but one cow, and I found it did not pay to feed dry fodder. Since then I have kept six cows and am making stable room for two more. I have only twenty-five acres of land, one-half of it being in orchard in which no feed is grown, so you see I am practically keeping six milch cows and two horses on twelve and one-half acres of land by the use of the Silo. Within fourteen months there have been twelve Silos erected in this vicinity, eleven of them being Unadillas.—William C. Fleming, Charlotte, N. Y.

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Ladder Permanent and Correctly Located

To stand in front of a Unadilla Silo and obtain a near view of its handy door fastener ladder is to admit it the best in use and the most conveniently located—directly under the opening, where a ladder should be. Contrast this desirable feature with that of a ladder, as commonly seen, attached to one side of the door opening with all its difficulties and hazards of swinging from the ladder around into the opening, over the top door and down to the ensilage. This is strenuous, dangerous work for any man, especially when one stops to consider that during a feeding season the dreaded trip must be made up and down 720 times. Think well of this and then remember that the Unadilla ladder is so easy to mount that it presents no obstacle to even a cripple or a man along in years.

Finds the Ladder Easy to Use

Gentlemen: The Silo I bought of you is giving perfect satisfaction and the lumber used was first-class. The doors are far ahead of any I have ever seen. I also find the ladder one of the best features of the Silo, as anyone who can get up and down a flight of stairs can climb the Unadilla ladder. One year ago I was feeding 300 lbs. of feed per day, while now I am only feeding 100 lbs. and am getting more milk from the same number of cows. I cannot say too much in favor of your Silo and shall erect another.—Sidney Dungey, Oxford, N. Y.

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Every Hoop Can be Tightened From the Fastener Ladder

By having all hoops end at the door front, in patent lugs attached to the frame, every hoop on a Unadilla Silo can be taken up 12 inches at this point by a person standing on the fastener ladder. It is all important that the hoops of a Silo should be kept tight, an attention which takes less than an hour's time with the Unadilla. The lack of this labor-saving arrangement on other Silos requires that to tighten their hoops a long ladder must be procured and set up against a round surface exciting a dread that too often results in neglect of attention and the Silo's collapse.

Durable Lumber Used in the Roof

Cypress and Redwood are most durable of all woods when exposed to the elements, for which reason all Unadilla

Likes the Hoop Tightening Features

Gentlemen: After studying the Silo question for several years with the intention of buying when I found one that was convenient, durable and safe, I was shown a model of a Unadilla and at once purchased a 10x24, which does not require a sledge to open the doors or incur the risk of breaking one's neck using an extension ladder to tighten the hoops. I have also found the Unadilla roof superior to any other.—P. H. Wakeman, Middletown, Va.

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roofs are made of those excellent materials, thereby minimizing their upkeep over a roof covered with paper, which soon rots away or is blown off, or a metal roof which cannot stand the moisture arising from the ensilage for long without rusting and becoming riddled with holes. Unadilla roofs are strongly constructed, add to the rigidity of the Silo, and give it an attractive appearance. It is wise economy to order a roof with the Silo.

Strong Cable Anchors Defy High Gales

Four adjustable base cable anchors are furnished with all Unadilla Silos, by the use of which the structure is held immovable on its foundation. In addition all sizes of Unadilla Silos are equipped with steel cable anchors, which are attached to the top and middle of

Base Anchors Held Silo in High Wind

Gentlemen: The Unadilla I purchased has proven O. K. in every respect. Lumber was fine and went together like clock work. Every feature was as represented. After looking at other Silos, I am convinced that the Unadilla is the best on the market. The base anchors proved their true worth to me. I had just gotten my Silo up, when before I had time to make connections with the barn, the worst storm that we have experienced in years struck my place. I expected that the Silo would be demolished, but, much to my surprise, it remained unharmed, thanks to the base anchors.—George Weimer, Canastota, N. Y.

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Silo through an equalizing saddle fitted to the threaded end of a ground rod, which further provides the necessary "take-up" adjustment to keep the cables under proper tension to safeguard the Silo when assailed by high winds.

Creosote Preservative Used

Purchasers of the Unadilla Silo have the optional choice of specifying that it be shipped in the natural wood or "dipped," a term used to indicate that the material is to be impregnated with wood preservative. Exhaustive experiments conducted by the United States Government have proven that wood treated with creosote will endure many years longer than otherwise. When a customer requests that his Silo be "dipped" it is impregnated with genuine creosote oil, the best wood preservative known. For this service a moderate extra charge is made.

Likes Everything About His Unadilla

Gentlemen: Since using my Unadilla Silo I cannot say enough in its favor. Doors fit tight and the beauty of them is that they never stick, while the ladder is the most perfect I have ever seen and I have seen several kinds. The material was all of the best. I cannot say more than I am pleased and satisfied in every way,—Roy B. Payne, Delaplane, Va.

A Few Good Reasons Why a Unadilla Silo is a Profitable Investment

An acre of corn as silage is considered worth twice as much as an acre of corn harvested in any other way.

With ensilage to feed during a poor pasture period the milk flow is not only kept up but the milk checks keep coming during the dry period.

Ensilage added to the ration increases milk production from 15 to 35% and at the same time a saving is made of one-half the hay and grain ordinarily fed.

Ensilage supplies the succulence for which the farm animals crave in the winter season, and they produce more milk, sweeter milk; more cream, richer cream; more butter, better butter; more meat and sweeter, tender meat at a time of year when all such products bring the highest market price.

Ensilage permits of a curtailment of the investment in land. An 80 acre farm under the Silo system will carry as many dairy cattle as 120 acres under the dry-feed system.

Ensilage, when put away in a Unadilla Silo, the ears of grain with their stalks, is secure against being devoured by rodents, against rain and snow, frost and hot weather. The farmer who feeds corn fodder in winter is compelled, at least part of the time, to dig it out of the snow. The Silo saves him and his team this hard work and exposure.

Ensilage fodder is harvested early enough to clear the land for plowing and the sowing of fall planted crops.

The Very Best in Silo Filling Machinery

This Company acts as sales agents, in non-conflicting territory, for the P a p e c Pneumatic and Rowell Trojan Ensilage Cutters, which are sold under positive guarantee of rendering economical and satisfactory service under the most exacting conditions associated with corn cutting and silo filling.

Descriptive catalogue on request.

UNADILLA SILO CO.,

Unadilla, N. Y.

